



CAREER AND TECHNICAL
EDUCATION PARTNERSHIP
— *of* NEW JERSEY —

Global Logistics and Supply Chain Management



Introductions

- Janice Pataki
 - Senior Strategic Solutions Manager
- Ayaz Aslam
 - Global Logistics Manager
- Martha McNulty
 - Project Director, Career and Technical Education Partnership, Raritan Valley Community College

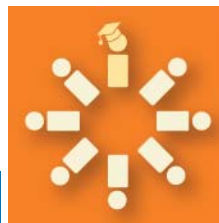


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Background

Preparation For Tomorrow Consortia

“Southern Regional Education Board (SREB) is partnering with a consortium of states and industry leaders to develop sequences of academically rigorous, standards-based CT courses in high-demand, high-skill, high-wage career areas targeted to the economic needs and opportunities of each participating state.”



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Global Logistics

Supply Chain Management



**What does
it look like?**



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Inside the FedEx Memphis “Super Hub”

2:05 min

Inside UPS (National Geographic)

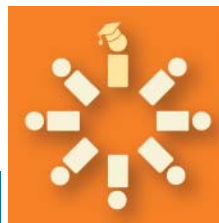
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The Field

- Global business-to-consumer e-commerce sales will pass the \$1.25 trillion mark by the end of 2013
- Total number of Internet users increased to approximately 3.5 billion in 2012



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The Field

- Wide field

- FedEx

<http://fedex.hodesiq.com/careers>

- UPS

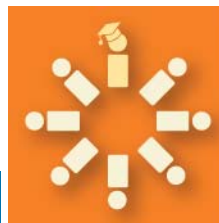
<https://ups.managehr.com/Home.htm>

- USPS

<http://about.usps.com/careers/welcome.htm>

- DHL

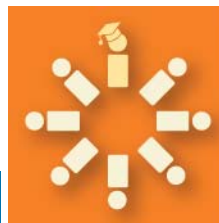
<http://www.dhl-usa.com/en/careers.html>



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The Field

- Holiday season (Thanksgiving thru Christmas)
 - 280 Million packages thru FDX
 - 440 Million packages thru UPS
- Busiest day
 - 17 Million thru FDX
 - 26 Million thru UPS



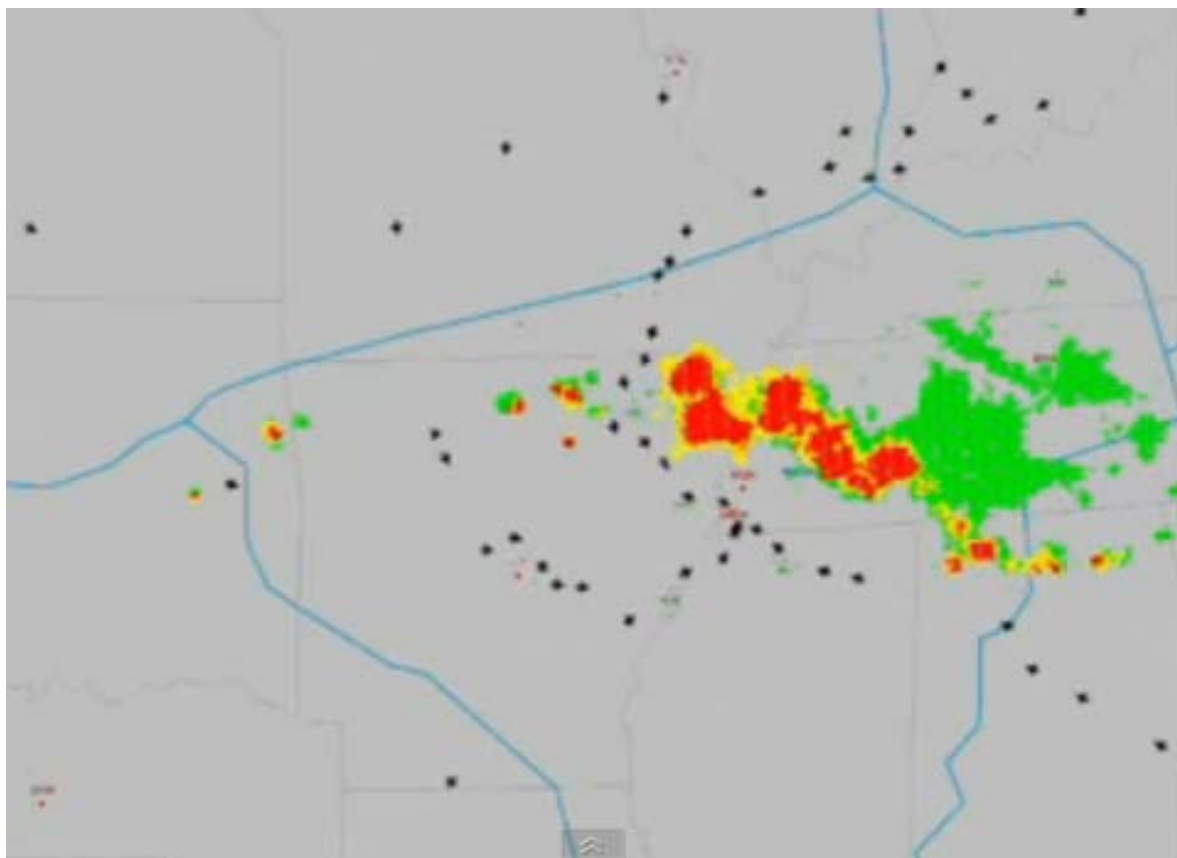
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Jobs Commonly Associated with Transportation

- Driver – van or tractor trailer
- Courier
- Customer Service
- Package Handler
- Sales
- Management



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FedEx Ant Hill

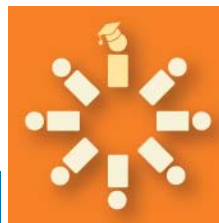
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Professional Positions

- Accounting/Administrative
- Communication/Marketing
- Engineering – packaging, industrial
- Flight operations - pilot, crew, ramp agent
- Meteorology
- International Broker
- Environmental Science and Sustainability



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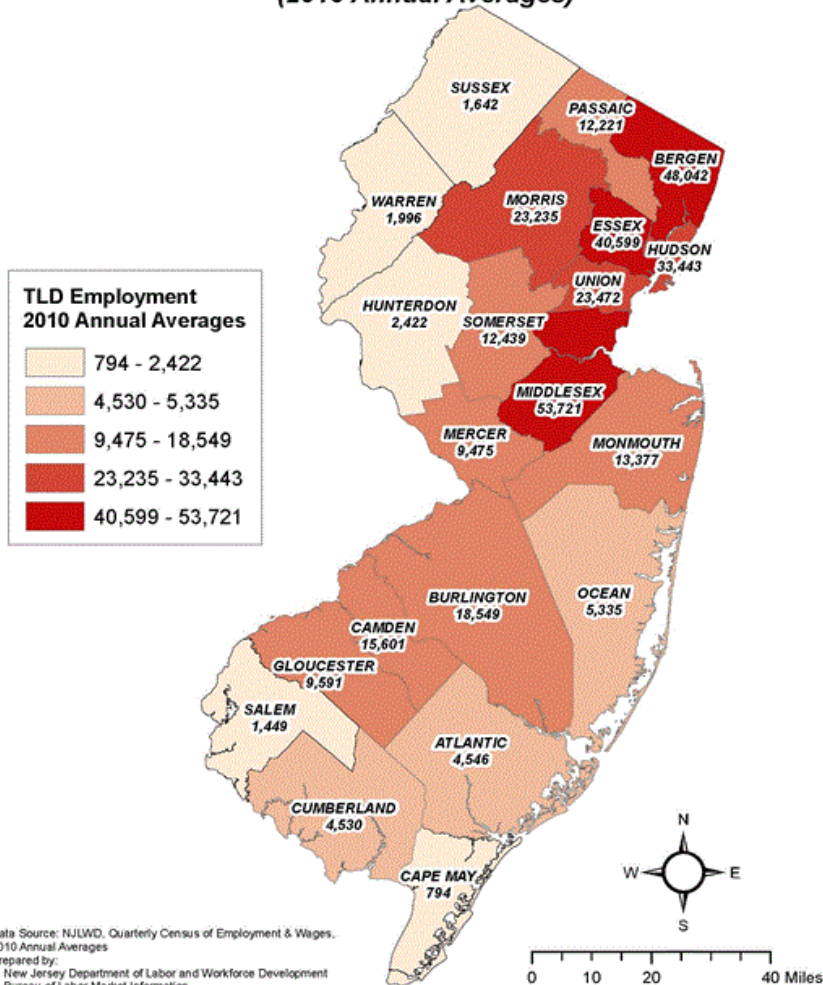
Professional Positions

- Trainer
- Legal
- Human Resources
- Security
- Properties
- Technology Services
- Mechanic – aircraft, automotive



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**Transportation, Logistics, Distribution Employment
New Jersey Counties
(2010 Annual Averages)**



(NJ TDL Talent Network <http://www.njtld.org/>)

The Transportation, Logistics, and Distribution (TLD) Industry is critical to New Jersey's economy.

- More than 1 in 10 workers in New Jersey work in TLD.
- The industry employed over 354,000 workers in New Jersey in 2010.
- TLD employers are located in every county in New Jersey.
- The industry average wage is nearly \$65,000 per year, which is \$15,000 per year above the average for all other industries in the state.

TLD contributed 48.9 billion 2005 inflation-adjusted dollars to the nation's GDP in 2009

(NJ TDL Talent Network <http://www.njtld.org/>)



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SREB

Southern Regional
Education Board

Helping States Improve Education Since 1948



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SREB Programs

Benchmarking CCCS

College and Career Readiness

College Completion

Doctoral Scholars

Education Data

Education Policies

Educational Technology

Educator Effectiveness

Go Alliance

High Schools That Work

Legislative Action

Making Middle Grades Work

Nursing Education

Preparation for Tomorrow

-- The Pathways

-- Model and Features

-- How-To

School Leadership

Student Access Programs

Technology Centers That Work

Preparation for Tomorrow

"This is what modern career-tech education looks like."

Imagine high school classes that show students how learning connects to life and work outside the school walls. Hands-on team projects where teens test-drive careers in high-demand fields while they learn rigorous academic math, science, reading and writing, and technical skills.

This is not futuristic thinking. SREB's Preparation for Tomorrow pathways are being field-tested in states across the country. Aerospace engineering in Alabama. Informatics in Kentucky. Clean energy technology in South Carolina. Within a few short years, these four-course sequences will be available to schools across the country.



"It flips the switch for students who aren't sparked by traditional teaching."



Preparation for Tomorrow is the culmination of years of work in states around the country through the nation's largest school improvement network here at SREB. The result is a turnkey pathway that includes everything a school needs to be sure it works, from curriculum to assessments to extensive training and support for teachers.

The goal: Students to master complex academic *and* technical concepts and graduate ready for as many options as possible in the workplace, technical colleges or universities.

More Details

Fact Sheet

Background

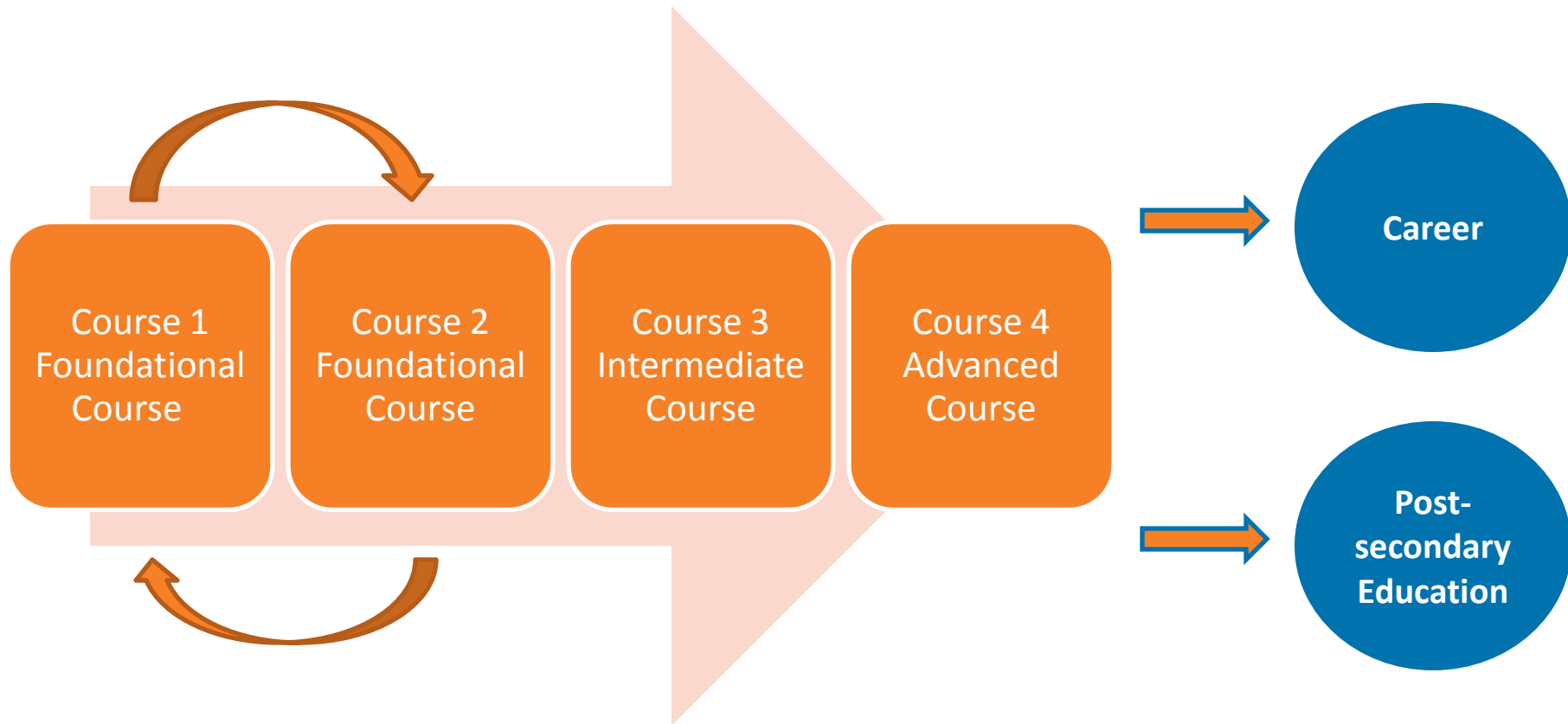
FOR INFORMATION, CONTACT:

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(404) 875-9211



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PFT Program of Study Model



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Panel Participants

- Business and Industry
- Postsecondary
- Higher Education
- Secondary
 - Mathematics/Science
 - English Language Arts
 - CTE



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Business and Industry Representatives

- FedEx
- Expeditors International of Washington, Inc.
- Middle Atlantic Products
- North Jersey Transportation Planning Authority
- 3M
- New York Shipping Association
- NAIOP New Jersey



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The Process

- Four work groups
- Invent 20 possible projects
 - Project Title
 - Essential Question
 - One-sentence description of what students will perform or produce to answer the essential question



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The Curriculum

Grade 9: Introduction to Logistics/Supply Chain Management

Grade 10: Functional Areas in Logistics

Grade 11: Global Logistics Management

Grade 12: Logistics and Supply Chain Management



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Introduction to Logistics

Grade 9

Course 1 Unit	Essential Question
9.1: Careers in Logistics	What steps do I need to take to achieve a successful career in Logistics?
9.2: From Order to Doorstep	How can the weak link in a supply chain be determined?
9.3: Where to Put the Warehouse	What factors contribute to selecting an appropriate location for a warehouse?
9.4: Risky Business	What programs and procedures do businesses put into place to manage risk in response to unplanned events?
9.5: In-sourcing vs. Out-sourcing	How does a business determine whether to in-source or out-source a product or process?
9.6: Demand Forecasting in a Global Environment	How does a company determine which global markets would be its best customers?
Course Description: A course focused on the fundamental concepts and roles of logistics, activities, systems and costs. Also addresses the relation between logistics, supply, and customer demand management.	

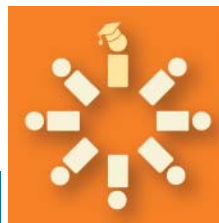


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Functional Areas in Logistics

Grade 10

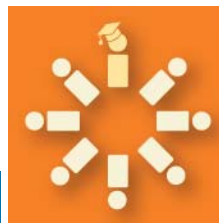
Course 1 Unit	Essential Question
10.1: The Role of Information Systems in Service Logistics	How can a service industry improve its operations using information systems?
10.2 Inventory Management of Multiple Products	How does the role of inventory management vary by product?
10.3: Choosing the Most Efficient Transport Mode	What is the most efficient transport method for a product?
10.4: Load optimization of a container	How can applying the principals of geometry make shipping less expensive?
10.5: Battle of the Big Boxes	What best Warehouse Management System practices do large companies use and how would those practices benefit our company?
10.6: Going green in the Warehouse and on the Road	What is the future of “green” warehouse design?
Course Description: A course providing the knowledge and skills needed to manage various functional areas in logistics. These functional areas include: inventory management, warehouse management, transportation system management.	



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Opportunities for Participation

- Pilot Testing Course 1 Curriculum, Fall 2013
 - Passaic County Technical School
 - Bergen Academy
 - Others?
- Professional Development
 - July 8-12



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Questions?



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